

Mass flow measuring device

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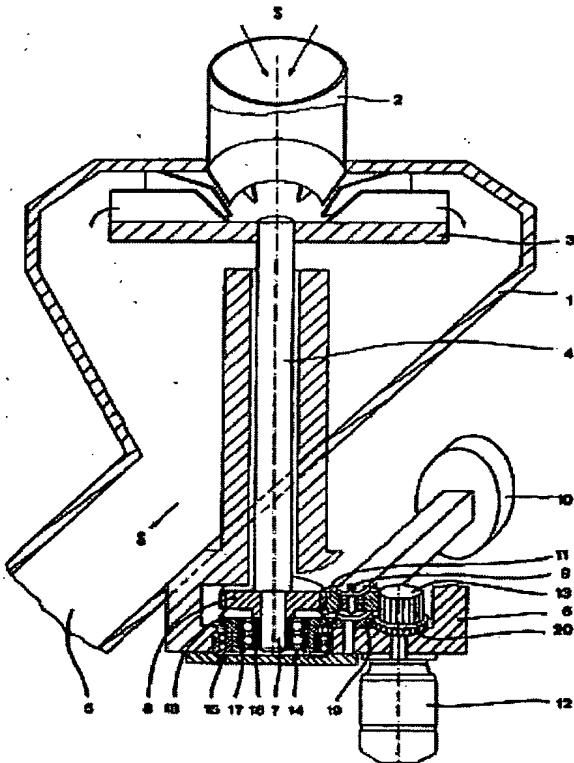
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Abstract of EP0474121

The device for measuring a preferably multi-phase mass flow has a turbine wheel (3), which is supported by a shaft (4) and driven at a constant rotational speed, and to which the mass flow (S) is applied axially, and which deflects this mass flow and imparts to it both a radial and a tangential velocity component, the shaft (4) carrying a drive spur gear (8) which engages with an intermediate spur gear (11) which is retained in its position by a force-measuring device (10) and has a second opposed tooth engagement with a driving spur gear (13) driven by a drive motor (12), the shaft (4) being mounted in a rolling bearing (14) whose inner ring (16) carries the shaft (4) and whose outer ring (17) is mounted rotatably in a further rolling bearing (15) and is subjected to an additional drive at a rotational speed which is at least equal to or greater than the rotational speed of the shaft (4).



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